

Title (en)  
Liquid crystal compound.

Title (de)  
Flüssigkristall-Verbindung.

Title (fr)  
Composé de cristal liquide.

Publication  
**EP 0418604 B1 19940803 (EN)**

Application  
**EP 90116484 A 19900828**

Priority  
JP 22065989 A 19890828

Abstract (en)  
[origin: EP0418604A1] A liquid crystal compound represented by formula (I): <CHEM> wherein R1 represents an alkyl group having from 5 to 18 carbon atoms; R2 represents an alkyl group having from 4 to 15 carbon atoms; X represents a single bond, -O-, -@-, or -@O-; and \* indicates an optically active center. The compound exhibits three stable states of molecular orientation.

IPC 1-7  
**C07C 69/76**; **C09K 19/20**; **G02F 1/13**

IPC 8 full level  
**C07C 69/773** (2006.01); **C07C 69/90** (2006.01); **C07C 69/94** (2006.01); **C09K 19/02** (2006.01); **C09K 19/20** (2006.01)

CPC (source: EP US)  
**C07C 69/90** (2013.01 - EP US); **C07C 69/94** (2013.01 - EP US); **C09K 19/0266** (2013.01 - EP US); **C09K 19/2021** (2013.01 - EP US)

Cited by  
EP0450595A1; EP0487093A3; US5378396A; EP0562627A1; US5316694A; EP0582519A1; US5393460A

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0418604 A1 19910327**; **EP 0418604 B1 19940803**; DE 69011258 D1 19940908; DE 69011258 T2 19950202; JP 3021477 B2 20000315; JP H0383951 A 19910409; US 5116531 A 19920526

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**EP 90116484 A 19900828**; DE 69011258 T 19900828; JP 22065989 A 19890828; US 57375190 A 19900828